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ATENT COOPERATION TREAT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference TS 9502 PCT				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/EP 03/06456				International filing date (da 20.06.2003	ay/month/year)	Priority date (day/month/year) 04.07.2002		
	ational J8/06	Paten	t Classification (IPC) or bo	nth national classification and	d IPC			
Applie SHE	cant LL IN	TERI	NATIONALE RESEA	RCH MAATS et al.				
1.	This i	nterna ority a	ational preliminary exar nd is transmitted to the	nination report has been applicant according to A	prepared by this laticle 36.	nternational Preliminary Examining		
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	Thes	e ann	exes consist of a total	of 2 sheets.				
3.	Basis of the opinion Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Lack of unity of invention Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI							
Date of submission of the demand					Date of completion	of this report		
04.02.2004					11.10.2004			
Name and mailing address of the international preliminary examining authority:					Authorized Officer	Andrews Polarican,		
_	<u>)</u>	D- Te	ropean Patent Office 80298 Munich II. +49 89 2399 - 0 Tx: 523 Ix: +49 89 2399 - 4465	:656 epmu d	Thomasson, P			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/06456

I.	Ba	sis	of	the	re	port
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	_						
Description, Pages							
	1-12		as originally filed				
	OI-:	Numboro					
		ns, Numbers	(I) 1				
	1-9-		filed with telefax on 01.09.2004				
2.	With lang	regard to the langua uage in which the inte	ge, all the elements marked above were available or furnished to this Authority in the enactional application was filed, unless otherwise indicated under this item.				
	Thes	se elements were ava	ilable or furnished to this Authority in the following language: , which is:				
		the language of a trar	nslation furnished for the purposes of the international search (under Rule 23.1(b)).				
			cation of the international application (under Rule 48.3(b)).				
		the language of a trar Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under				
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application international preliminary examination was carried out on the basis of the sequence listing:						
		contained in the inter	national application in written form.				
	☐ filed together with the international application in computer readable form.						
		furnished subsequen	tly to this Authority in written form.				
		furnished subsequen	tly to this Authority in computer readable form.				
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		The statement that the listing has been furni	ne information recorded in computer readable form is identical to the written sequence shed.				
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).				
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this				
6	Δda	litional observations, i	if necessary:				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/06456

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: No:

Yes: Claims

Claims

1-9

Inventive step (IS)

Yes: Claims

No: Claims

1-9

Industrial applicability (IA)

Yes: Claims

1-9

No: Claims

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following documents:
 - D1: US-A-5 520 890 (LORENTZEN GEIR B ET AL) 28 May 1996 (1996-05-28)
 - D2: US-A-2 852 545 (JENNY FRANK J) 16 September 1958 (1958-09-16)
 - D3: DE 855 242 C (HERCULES POWDER COMPANY WILMIN) 10 November 1952 (1952-11-10)
- 2. The present application does not meet the requirement of Article 33(2) PCT for the following reasons:
 - D1-D3 disclose some apparatus comprising one or more common reactant feed lines, two or more single unit operated reactor sections and one or more common product discharge lines. Furthermore the apparatus are used for the preparation of hydrocarbons from carbon monoxide and hydrogen (see D1-D3: International Search Report). The attention of the applicant is drawn to the fact that each reactor section is comprised in an **individual reactor** (see D1: figure 1, individual tubular reactor (13); D2: figure 3, individual tubular reactors bundle (26); D3: figure 1, individual tubular reactor (11, 16)). Therefore the subject-matter of claims 1 and 9 is not novel.
- 3. The technical features of claims 2-8 are either known from D1-D3 or are considered to be merely one of several possibilities which the skilled person would select, in accordance with the circumstances, without the exercise of inventive skill. Consequently these claims do not meet the requirement of Article 33(2)-(3) PCT.

Additional observations

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in D1-D3 is not mentioned in the description, nor are these documents identified therein.